

DECLARATION AND POWER OF ATTORNEY

I, KENNETH ADAMS, declare that I am a citizen of the United States of America, residing at Bloomington, Illinois, and that I believe I am one of the original, first, and joint inventors together with WADE ROBEL AND FRANK JIANYUAN YANG of the subject matter which is claimed and for which a patent is sought on the invention entitled:

FLUID CONTROL VALVE

the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to be material to patentability as defined in §1.56. I further declare that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns.

I hereby appoint Alan J. Hickman, Patent Office Reg. No. 29,649, telephone (309) 675-4517, J. Wesley Blumenshine, Patent Office Reg. No. 32,399, telephone (309) 675-5537, J. W. Keen, Patent Office Reg. No. 28,432, telephone (309) 675-5753, and Dennis C. Skarvan, Patent Office Reg. No. 35,360, telephone (309) 675-6060, my attorneys and/or agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected with this application. Please address all correspondence to: Alan J. Hickman, Caterpillar Inc., Intellectual Property Department, AB6490, 100 N.E. Adams Street, Peoria, Illinois 61629-6490.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

 Kenneth Adams 11/20/02
KENNETH ADAMS Date
Post Office Address:
11 Bandecon Way
Bloomington, Illinois 61704

DECLARATION AND POWER OF ATTORNEY

I, WADE ROBEL, declare that I am a citizen of the United States of America, residing at Normal, Illinois, and that I believe I am one of the original, first, and joint inventors together with KENNETH ADAMS AND FRANK JIANYUAN YANG of the subject matter which is claimed and for which a patent is sought on the invention entitled:

FLUID CONTROL VALVE

the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to be material to patentability as defined in §1.56. I further declare that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns.

I hereby appoint Alan J. Hickman, Patent Office Reg. No. 29,649, telephone (309) 675-4517, J. Wesley Blumenshine, Patent Office Reg. No. 32,399, telephone (309) 675-5537, J. W. Keen, Patent Office Reg. No. 28,432, telephone (309) 675-5753, and Dennis C. Skarvan, Patent Office Reg. No. 35,360, telephone (309) 675-6060, my attorneys and/or agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected with this application. Please address all correspondence to: Alan J. Hickman, Caterpillar Inc., Intellectual Property Department, AB6490, 100 N.E. Adams Street, Peoria, Illinois 61629-6490.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.


WADE ROBEL

Date

11/20/03

Post Office Address:

1401 Maplewood
Normal, Illinois 61761

DECLARATION AND POWER OF ATTORNEY

I, FRANK JIANYUAN YANG, declare that I am a citizen of China, residing at Novi, Michigan, and that I believe I am one of the original, first, and joint inventors together with KENNETH ADAMS AND WADE ROBEL of the subject matter which is claimed and for which a patent is sought on the invention entitled:

FLUID CONTROL VALVE

the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to be material to patentability as defined in §1.56. I further declare that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns.

I hereby appoint Alan J. Hickman, Patent Office Reg. No. 29,649, telephone (309) 675-4517, J. Wesley Blumenshine, Patent Office Reg. No. 32,399, telephone (309) 675-5537, J. W. Keen, Patent Office Reg. No. 28,432, telephone (309) 675-5753, and Dennis C. Skarvan, Patent Office Reg. No. 35,360, telephone (309) 675-6060, my attorneys and/or agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected with this application. Please address all correspondence to: Alan J. Hickman, Caterpillar Inc., Intellectual Property Department, AB6490, 100 N.E. Adams Street, Peoria, Illinois 61629-6490.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FRANK JIANYUAN YANG

Post Office Address:

43200 Lochrisen Way
Apt. #3004
Novi, Michigan 48375

Date

Dec. 5, 2003